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PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1

of 7

Complete if Known

Application Number	10/707,595
Filing Date	December 23, 2003
First Named Inventor	Gregory A. Homann
Art Unit	
Examiner Name	
Attorney Docket Number	LC 0141 PUS

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
82		US- 2331688	10-12-1943	Hobson	
		US- 2345144	03-28-1944	Opavsky	
		US- 2714747	08-09-1955	Lindemann	
		US- 2714748	08-09-1955	Stirnemann	
		US- 3021559	02-20-1962	Strong	
		US- 3044118	07-17-1962	Bernhardt	
		US- 3135640	06-02-1964	Kepka	
		US- 3687582	08-29-1972	Hendry et al.	
		US- 3966372	06-29-1976	Yasuike et al.	
		US- 4033710	07-05-1977	Hanning	
		US- 4078875	03-14-1978	Eckardt	
		US- 4082226	04-04-1978	Appleman et al.	
		US- 4,091,057	05-23-1978	Weber	
		US- 4,092,389	05-30-1978	Sakurai	
		US- 4,101,617	07-18-1978	Friederich	
		US- 4,104,353	08-01-1978	Monnet	
		US- 4,106,887	08-15-1978	Yasuike et al.	
		US- 4,129,635	12-12-1978	Yasuike et al.	
		US- 4,136,220	01-23-1979	Olabisi	

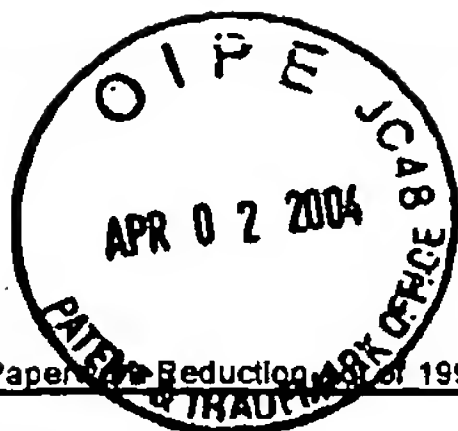
FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
82 1		JP 06155501	06-03-1994			
		JP 10291227	11-04-1998			<input checked="" type="checkbox"/>
		GB 2315050	01-21-1998			
		EP 0 402 730	06-05-1990			
		DE 195 31 709 A 1	03-06-1997			
		JP 4-62118				

Examiner Signature	82	Date Considered	9/04
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STATEMENT BY APPLICANT**

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Sheet 2

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First Named Inventor	Gregory A. Homann
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		Number-Kind Code ² (if known)			
		US- 4,140,672	02-20-1979	Kataoka	
		US- 4,234,642	11-18-1980	Olabisi	
		US- 4,247,515	01-27-1981	Olabisi	
		US- 4,255,368	03-1981	Olabisi	
		US- 4,333,608	06-08-1982	Hendry	
		US- 4,357,296	11-02-1982	Hafele	
		US- 4,474,717	10-02-1984	Hendry	
		US- 4,555,225	11-26-1985	Hendry	
		US- 4,601,870	07-22-1986	Sasaki	
		US- 4,604,044	08-05-1986	Hafele	
		US- 4,740,150	04-26-1988	Sayer	
		US- 4,781,554	11-1-1988	Hendry	
		US- 5,069,859	12-03-1991	Loren	
		US- 5,090,886	02-25-1992	Jaroschek	
		US- 5,098,637	03-1992	Hendry	
		US- 5,204,051	04-1993	Jaroschek	
		US- 5,423,667	06-1995	Jaroschek	
		US- 5,928,677	07-27-1999	Gosdin	
		US-			

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		DE 40 33 298	05-02-1991			
		EP 0 309 182	03-29-1989			
		EP 0 309 257	03-29-1989			
		EP 0 321 117	06-21-1989			
		DE 2651725	04-20-1978			
		DE 2 106 546	08-17-1972			<input checked="" type="checkbox"/>

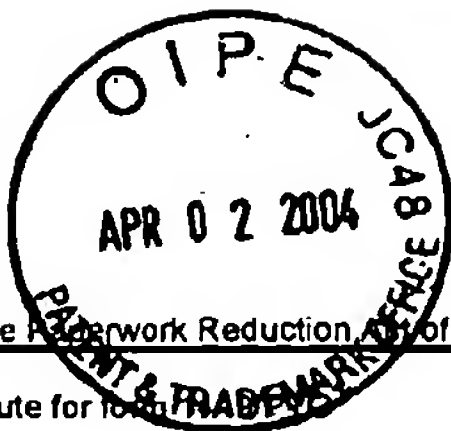
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9/04

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First Named Inventor	Gregory A. Homann
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Attorney Docket Number	LC 0141 PUS

Sheet 3

of 7

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		Number-Kind Code ² (if known)			
		US- 4,208,368	06-17-1980	Egli	
		US- 6,019,918	02-01-2000	Guergov	
		US- 5,759,479	06-1998	Gotterbauer	
		US- 6,372,177	04-2002	Hildesson et al.	
		US- 6,159,415	12-12-2000	Tanada	
		US- 5,028,377	07-02-1991	Hendry	
		US- 5,069,858	12-03-1991	Hendry	
		US- 5,204,050	04-20-1993	Loren	
		US- 5,607,640	03-04-1997	Hendry	
		US- 5,885,518	03-23-1999	Hendry	
		US- 6,354,826	03-12-2002	Thomas	
		US- 6,375,892	04-23-2002	Thomas	
		US- 6,576,170	06-10-2003	Nunnery et al.	
		US- 6,579,489	06-17-2003	Thomas	
		US- 6,602,460	08-05-2003	Thomas et al.	
		US- 2003/0011110	01-16-2003	Pearson	
		US- 2003/0011111	01-16-2003	Pearson	
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		DE 3444532	06-1986			
		JP 5714968	06-1975			✓
		JP 50-74660	06-1975			✓
		DE 651 725	10-18-1937			
		GB 1 460 101	12-1976			
		GB 1 487 187	09-1977			

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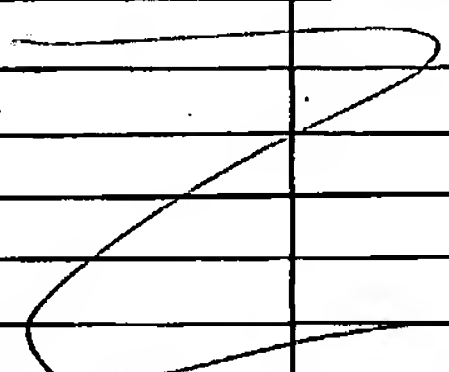
(Use as many sheets as necessary)

Sheet	4	of	7
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First Named Inventor	Gregory A. Homann
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Examiner Name	
Attorney Docket Number	LC 0141 PUS

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		JP 3009820	01-1991			<input checked="" type="checkbox"/>
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		GB 2 100 661	01-06-1983			<input type="checkbox"/>
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Examiner Signature		Date Considered	9/19
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Sheet	6	of	7
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87		DE 43 34 012	10-06-1993		2	✓
		DE 40 02 503	01-29-1990			✓
		CA 2,125,623	12-12-1994			

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